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NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC/BBMP/RN/W.no.13/2016-17

Date: 03.02.2017

TEST REPORT

CLIENT	:	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
AGENCY	:	**Sri.R.Nithin,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements and Asphalting to main & Cross roads at opp to Mallasandra Govt school & Pipe line road in ward no .13 in Shetty halli Sub Division, BBMP, Bangalore.
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	385 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00 %	-

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Job No.: CECTC/BBMP/RN/W.no.13/2016-17 Date : 03.02.2017

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **Sri:R.Nithin,** Contractor, Bangalore.

Name of Work : Improvements and Asphalting to main & Cross roads at opp to Mallasandra Govt school & Pipe line road in ward no .13 in Shetty halli Sub Division, BBMP, Bangalore.

Date of Testing : 03.02.2017

Material : Sand Total Wt. of Aggregates **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	162	8.10	8.10	91.9	90-100
2.36	158	7.90	16.00	84.0	75-100
1.18	240	12.00	28.00	72.0	55-90
600 Micron	380	19.00	47.00	53.0	35-59
300 Micron	620	31.00	78.00	22.0	8-30
150 Micron	336	16.80	94.80	5.2	0-10

Information is furnished by the Agency

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Job No.: CECTC/BBMP/RN/W.no.13/2016-17

Date : 03.02.2017

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **Sri.R.Nithin,** Contractor, Bangalore.

Name of Work : Improvements and Asphalting to main & Cross roads at opp to Mallasandra Govt school & Pipe line road in ward no .13 in Shetty halli Sub Division, BBMP, Bangalore.

Date of Testing : 03.02.2017

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	234	1.56	1.56	98.44	95-100
20	8814	58.76	60.32	39.68	30-70
10	3695	24.63	84.95	15.05	10-35
4.75	2074	13.83	98.78	1.22	0-5

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Job No.: CECTC/BBMP/RN/W.no.13/2016-17 Date: 03.02.2017

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Contractor : **Sri.R.Nithin,** Contractor, Bangalore.

Name of Work : Improvements and Asphalting to main & Cross roads at opp to Mallasandra Govt school & Pipe line road in ward no .13 in Shetty halli Sub Division, BBMP, Bangalore.

Sample Identification : 8mm,10mm, 12mm, 16mm, TMT Fe 500 Bars

Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

Date of test : 03.02.2017

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.390	536	546	13.0
2	Fe 500	10	0.620	540	550	14.5
3	Fe 500	12	0.89	550	560	16.0
4	Fe 500	16	1.590	558	568	17.0

Remarks:

The results pertain to the samples received and tested.

Any correction in the report will make this report invalid.

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Samples will be disposed after 15 days from the date of issue of test certificate

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Job No.: CECTC/BBMP/RN/W.no.13/2016-17

Date: 22.02.2017

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Contractor : **Sri.R.Nithin,,** Contractor, Bangalore.

Name of the work : Improvements and Asphalting to main & Cross roads at opp to Mallasandra Govt school & Pipe line road in ward no .13 in Shetty halli Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.02.2017	22.02.2017	8.097	380.1	16.89
2	15.02.2017	22.02.2017	8.004	399.6	17.76
3	15.02.2017	22.02.2017	7.938	402.5	17.89

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Job No.: CECTC/BBMP/RN/W.no.13/2016-17 Date: 15.03.2017

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Contractor : **Sri.R.Nithin,,** Contractor, Bangalore.

Name of the work : Improvements and Asphalting to main & Cross roads at opp to Mallasandra Govt school & Pipe line road in ward no .13 in Shetty halli Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strengt (N/mm^2)
1	15.02.2017	15.03.2017	8.036	506.2	22.50
2	15.02.2017	15.03.2017	8.046	501.3	22.28
3	15.02.2017	15.03.2017	8.001	489.8	21.77

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Job No.: CEC/TC/BBMP/RN/Wno.13/2016-17

Date: 03.03.2017

Aggregate Impact Value
IS: 2386 Part IV

Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Agency	Sri.R.Nithin, Contractor, Bangalore.
Name of the Work	Improvements and Asphalting to main & Cross roads at opp to Mallasandra Govt school & Pipe line road in ward no .13 in Shetty halli Sub Division, BBMP, Bangalore.
Source / Location	WMM Plant
Type of Mix	Wet Mix macadam
Date of Testing	03.03.2017

Sl No.	Details	Trial No. 1	Trial No. 2	Trial No. 3	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	368	371	372.5	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	81	83.5	86	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	287	287.5	286.5	
4	Aggregate Impact value = percent fines 100^* (W_2/W_1)%	22.01	22.51	23.09	22.53

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

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